WHAT IS CLAIMED IS:

- A printed wiring board (PWB) for attaching electrical
 components thereto, comprising:
- 3 a stack of insulating layers;
- 4 conductive layers located between said insulating layers and
- 5 wherein at least a portion of said conductive layers terminates at
- 6 a continuous edge of a PWB; and
- 7 an edge plate interconnect located on said continuous edge of
- 8 said PWB that contacts at least a portion of said conductive layers
- 9 at said continuous edge.

7

2. The PWB as recited in Claim 1 wherein said edge plate interconnect is a first edge plate interconnect that contacts a first set of said conductive layers at said continuous edge of said PWB, and said PWB further includes a second edge plate interconnect located on said edge that contacts a second set of said conductive layers at said continuous edge, said first and second edge plate

interconnects forming separate interconnects.

3. The PWB as recited in Claim 2 wherein said continuous edge is an external edge located at an outer perimeter of said PWB and said first and second edge plate interconnects form stacked interconnects.

- 4. The PWB as recited in Claim 1 wherein said continuous edge is an edge located on an edge of an opening formed within an interior of said PWB.
- 5. The PWB as recited in Claim 4 wherein said opening is a core-on-board opening for a magnetic core having windings associated therewith.

6. The PWB as recited in Claim 5 wherein said edge plate interconnect is a first edge plate interconnect that contacts a first conductive winding of said magnetic core within said PWB, and said PWB further includes a second edge plate interconnect located on said edge that contacts a second winding of said magnetic core within said PWB, said first and second edge plate interconnects forming separate interconnects for said first and second conductive windings, respectively.

- 7. A method of manufacturing electrical interconnects for a PWB, comprising:
- 3 providing a stack of insulating layers having an edge;

2

2

3

4

- placing conductive layers between said insulating layers, said conductive layers terminating at a continuous edge of said PWB; and
- forming an edge plate interconnect on said continuous edge,
- 7 said edge plate interconnect contacting and electrically
- 8 interconnecting said conductive layers at said continuous edge.
- 8. The method as recited in Claim 7 wherein forming an edge 2 plate interconnect includes forming a first edge plate interconnect 3 located on and that contacts a first set of said conductive layers at said continuous edge, and said method further including forming 4 5 a second edge plate interconnect located on and that contacts a second set of said conductive layers at said continuous edge, said 6 7 and second edge plate interconnects forming separate 8 interconnects.
 - 9. The method as recited in Claim 8 wherein said continuous edge is an external edge located at an outer perimeter of said PWB and forming said first and second edge plate interconnects includes forming stacked interconnects.

- 10. The method as recited in Claim 7 wherein forming said
 2 edge plate interconnect includes forming said edge plate
 3 interconnect on a continuous edge located in an opening formed
 4 within an interior of said PWB.
- 11. The method as recited in Claim 10 wherein said opening is
 2 a core-on-board opening for a magnetic core having windings
 3 associated therewith.

- 12. The method as recited in Claim 11 wherein forming an edge plate interconnect includes forming a first edge plate interconnect on said continuous edge of said core-on-board opening and that contacts a first conductive winding of said magnetic core within said PWB, and further including forming a second edge plate interconnect on an edge of said opening and that contacts a second winding of said magnetic core within said PWB, said first and second edge plate interconnects forming separate interconnects for said first and second conductive windings, respectively.
- 13. The method as recited in Claim 12 further including attaching electrical components to said PWB, positioning said magnetic core through said core-on-board opening to form a transformer, and interconnecting at least a portion of said

- 5 electrical components with said transformer using said edge plate
- 6 interconnect.

- 14. A power converter, comprising:
- 2 a printed wiring board (PWB) having conductive layers
- 3 terminating at a continuous edge of the PWB;
- 4 edge plate interconnects located on said continuous edge of
- 5 said PWB; and
- a transformer including primary and second windings, said
- 7 primary winding being coupled to a primary circuit by at least one
- 8 via and said secondary winding being coupled to a secondary circuit
- 9 by at least one of said edge plate interconnects.
- 15. The power converter as recited in Claim 14 wherein said
- 2 edge plate interconnect is a first edge plate interconnect that
- 3 contacts a first set of said conductive layers at said continuous
- 4 edge and said PWB further includes a second edge plate interconnect
- 5 located on said edge that contacts a second set of said conductive
- 6 layers at said continuous edge, said first and second edge plate
- 7 interconnects forming separate interconnects.
- 16. The power converter as recited in Claim 15 wherein said
- 2 continuous edge is an external edge located at an outer perimeter
- of said PWB and said first and second edge plate interconnects form
- 4 stacked interconnects.

17. The power converter as recited in Claim 14 wherein said continuous edge is an edge located on an edge of a core-on-board opening for a magnetic core of said transformer formed in said PWB.

2

3

5

6

7

- 18. The power converter as recited in Claim 17 wherein said edge plate interconnect is a first edge plate interconnect that contacts a first secondary conductive winding of said transformer within said PWB, and said PWB further includes a second edge plate interconnect located on said continuous edge that contacts a second secondary winding of said transformer within said PWB, said first and second edge plate interconnects forming separate interconnects for said first and second conductive windings, respectively.
- 19. The power converter as recited in Claim 18 wherein said primary windings are interconnected by vias, but not by said edge plate interconnects.